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INDEX GENERATING METHOD

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ABSTRACT

PURPOSE: To shorten time consumed for the generation processing of an index by performing the OR operation of the index value of a record for the index of a relation to be operated after shifting it by proper number of bits, and obtaining the index concerning the operated result at the tie of the operation.

CONSTITUTION: It is assumed that a *query* to retrieve all tuples whose age attribute is 17 and sex distinction attribute is female is issued. For generating a *query* *mask*, an age and a sex distinction-binary value conversion procedure is applied to the age (e.g., 17) and the sex distinction (e.g., female), and the binary values 1001 and 10 are obtained. Besides, a person's name attribute is assumed to be 0000 if it is not designated, and these three binary values are shifted by one bit, and the OR operation is executed. Regarding all positions, in which the bits of the *query* *mask* 13 obtained by such a way are set, the index records 8, 10, in which all the bits are set at the same bit positions are selected out of the index records 7-12 and the tuples 2, 5 are extracted. The extracted contents are checked and the tuple 2, the age attribute which is 17 and the sex distinction attribute which is female is extracted and the retrieval is finished.